

Utah Weekly Pertussis Update

2012 data, through MMWR week ending December 29 (MMWR week 52)

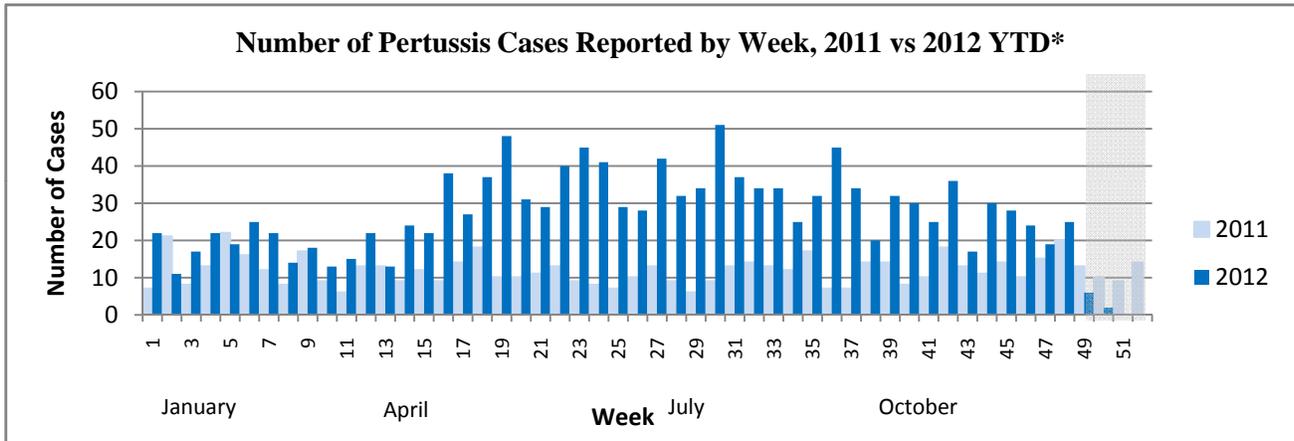
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2012 year-to-date (YTD)	1,366	Utah Incidence rate, 2012 year-to-date (YTD) per 100,000 person-years	48.1
Total number of cases reported 2011	618	Utah Incidence rate, 2011 per 100,000 person-years	21.7
Number of cases reported in past week	44	National Incidence rate, 2012 per 100,000 person-years (As of 11/23/12)	11.6
Total number of cases reported, through same time period 2011	580	National Incidence rate, 2011 per 100,000 person-years	6
Age groups with the highest rates	<1 year 5-14 years	Cases in infants <1 year	128

Of the 1,366 cases reported, 40 (3%) have been hospitalized. 1 death has been reported due to pertussis in 2012.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2012 Year-to-Date Incidence Rates, By Age

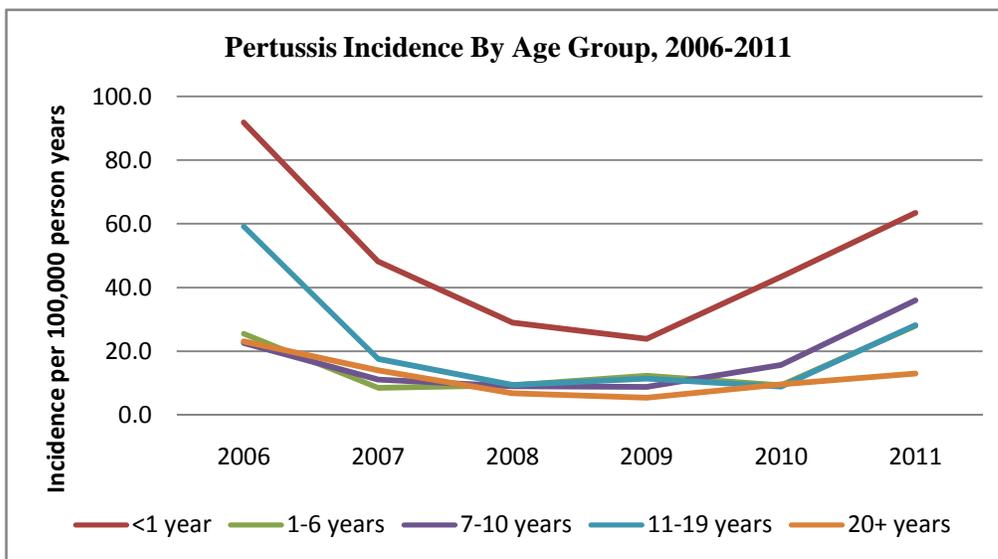
Age (years)	2012 Cases	2010 population	Rate*
<1	128	55,242	232.3
1-4	174	217,411	80.3
5-14	482	476,561	101.4
15-24	158	459,367	34.5
25-34	100	471,944	21.2
35-44	133	346,255	38.5
45-54	95	322,009	29.6
55-64	49	241,232	20.4
65+	47	257,876	18.3
Total	1366	2,847,897	48.1

* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

Rates by Age Group, Utah 2006-2011

NOTE: Previous weekly reports included 2009 rates that were artificially elevated due to an error in the data; as of Oct 18, 2012, this has been corrected



Utah's rates among different age groups is comparable to national figures, which can be found at: <http://www.cdc.gov/pertussis/surv-reporting.html>

School Age Incidence Rates, 2012 Year-to-Date

Grade	Age (years)	Cases	2010 Population	Rate*
Preschool	3-4	90	106,218	85.0
Kindergarten	5	40	52,765	76.0
1	6	45	51,948	86.9
2	7	37	50,811	73.0
3	8	44	50,547	87.3
4	9	46	49,081	94.0
5	10	78	46,857	166.9
6	11	60	44,949	133.9
7	12	43	43,944	98.1
8	13	38	43,111	88.4
9	14	51	42,548	120.2
10	15	50	41,611	120.5
11	16	22	41,935	52.6
12	17	19	42,317	45.0

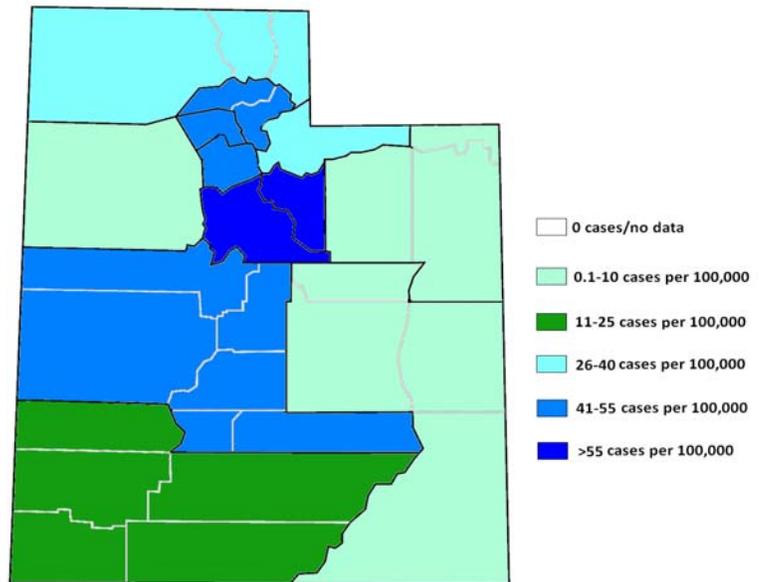
* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

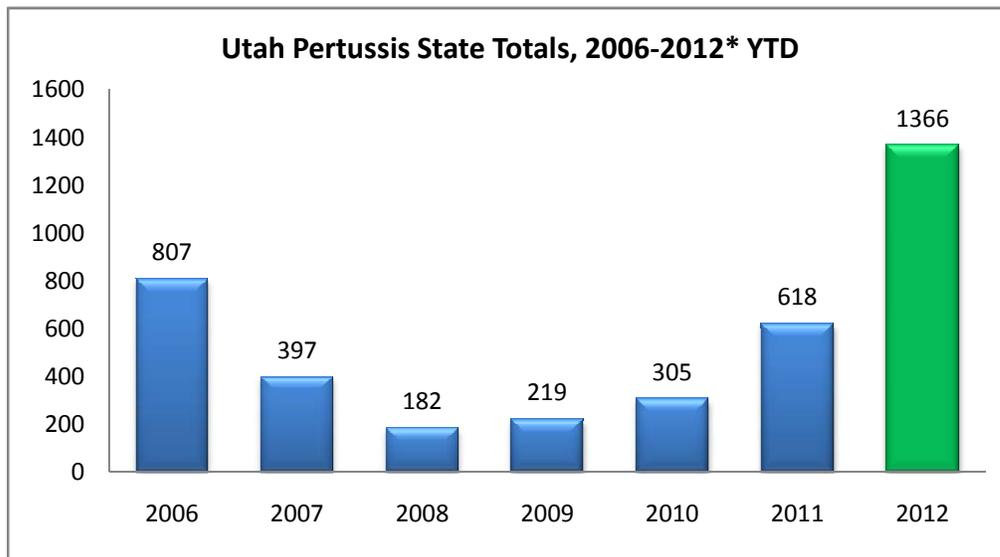
Incidence of pertussis by Local Health Department, 2012 YTD

Local Health Department	2012 Cases	Rate*
Bear River	59	35.0
Central Utah	37	47.7
Davis County	134	42.9
Salt Lake Valley	552	52.2
Southeastern Utah	2	3.5
Southwest Utah	38	17.8
Summit County	11	26.8
Tooele County	4	6.7
TriCounty	3	6.0
Utah County	373	69.2
Wasatch County	34	143.0
Weber-Morgan	119	49.5



* Rate is calculated per 100,000 person-years using 2010 Utah population estimates

Utah Case Counts of Pertussis, 2006-2012



2006 was the last year with a notably elevated number of pertussis reports in Utah and the U.S. Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

* 2012 data includes pertussis cases reported year to date. 2006-2011 data reflects cases reported during the entire calendar year for each year.